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Lai

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(54) **TRAINING TOOTHBRUSH**

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(58) **Field of Classification Search**

CPC **A46B 9/045**; **A46B 9/026**

USPC **15/167.2**

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D196,635 S * 10/1963 Kinsella 15/167.1
5,615,443 A * 4/1997 Lai A46B 9/045
15/145

8,635,731 B2 * 1/2014 Garner A46B 9/045
15/22.1

2004/0074035 A1 * 4/2004 Huang A46B 3/005
15/167.2

2013/0067665 A1 * 3/2013 Sowinski A61C 17/228
15/4

* cited by examiner

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(57) **ABSTRACT**

A training toothbrush is for a user to hold its handle and to have his/her upper and lower tooth rows engaging with respective tooth-accommodating indentations while gliding the training toothbrush to and fro along curves of his/her upper and lower tooth rows. At the rear ends of the user's upper and lower tooth rows, the training toothbrush uses flexible tooth-cleaning bristles to scrub laterals of teeth at the ends of the upper and lower tooth rows. When the user glides the training toothbrush, its flexible connecting plates radially wiggle, and at the same time the flexible tooth-cleaning bristles are driven to axially move outward, thereby effectively cleaning the laterals of teeth at the ends of the upper and lower tooth rows.

2 Claims, 4 Drawing Sheets

